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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,362	10/30/2003	Edward W. Merrill	37697-0081	6751
26633	7590 03/31/2005		EXAMINER	
HELLER EHRMAN WHITE & MCAULIFFE LLP			BERMAN, SUSAN W	
	E ISLAND AVE, NW ON, DC 20036-3001		ART UNIT PAPER NUMBER	
	•		1711	

DATE MAILED: 03/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	_ /		1.1			
	Application No.	Applicant(s)				
	10/696,362	MERRILL ET AL.				
Office Action Summary	Examiner	Art Unit	-			
	Susan W Berman	1711	_			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was a really experienced by the office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	e6(a). In no event, however, may a r within the statutory minimum of thin ill apply and will expire SIX (6) MON cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 09 De	ecember 2004.					
	action is non-final.					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims	,					
4) ☐ Claim(s) 124-127 is/are pending in the applicate 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 124-127 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	·				
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on <u>09 December 2004</u> is/ar Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ drawing(s) be held in abeyan on is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	have been received. have been received in A ity documents have been (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)	,					
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Date formal Patent Application (PTO-152)				

Response to Request for Interference

Claims 124-127 of this application have been copied by the applicant from U. S. Patent No. 6,316,158. These claims are not patentable to the applicant because the instant specification is not found to be enabling for the claims presented. See the rejection under 35 USC 112 set forth below.

An interference cannot be initiated since a prerequisite for interference under 37 CFR 1.606 is that the claim be patentable to the applicant subject to a judgment in the interference.

Response to Amendment

The objection to the disclosure because of informalities is withdrawn in response to the amendment to the specification correcting the fling date of S.N. 08/726,313 to be October 2, 1996.

The rejection of claims 124-127 under 35 U.S.C. 112, first paragraph, is withdrawn.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 124-126 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a process comprising providing an UHMWPE preform, heating the preform to a temperature greater than the melting temperature, preferably within the temperature range of about 145° to about 230°C and subsequently irradiating the preform, preferably at a dose of greater than about 1 Mrad or more preferably at a dose of greater than about 20 Mrads, does not reasonably provide enablement for providing a UHMWPE preform, heating the preform to a temperature above the melting point of the UHMWPE "to about 300°C", or for subsequently irradiating with gamma radiation at a dose of "about 0.5 to about 30 Mrad". The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims. Claim 124 clearly sets forth the method set forth in the specification called melt

irradiation (MIR). See pages 29-31. The temperature of about 300°C in claim 124, the temperature range of 137° to 300°C recited in claim 125 and gamma radiation dose of 0.5 to 30 Mrad recited in claim 126 are taught for the "WIR-SM" or the "CIR-SM" methods disclosed on pages 11-12, 19, 20 and 21 of the specification. Claims 125 and 126 could properly depend from claim 127, which recites a method of irradiation and subsequent melting.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

It is noted that the instant claims are not entitled to the 02-13-1996 filing date of US 5,879,400 because this parent patent discloses only the method of melt irradiation (MIR) and none of the instant claims set forth this method as disclosed in US '400. The effective filing date for the instant claims is considered to be 02-11-1997, the filing date of CIP application SN 08/798,638, which discloses WIR-SM and CIR-SM methods.

Claims 124-127 are rejected under 35 U.S.C. 102(e) as being anticipated by Saum et al (6,316,158, filed 10-2-1996). Saum et al disclose a process corresponding to the process set forth in instant claims 124-126 in column 6, lines 33-51. Saum et al teach cooling the melted polymer before irradiation and subsequent melting, however, the cooling step in encompassed by the comprising language of the instant claims. Saum et al disclose a process comprising irradiation followed by melting and corresponding to claim 127 in column 4, lines 7-10 and column 4, line 52, to column 5, line 36.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 124-127 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 124-129, 131-134 of copending parent

Application No. 10/197209. Although the conflicting claims are not identical, they are not patentably distinct from each other because the processes set forth in the corresponding claims overlap wherein the heating is at a temperature above the melting point to about 300°C and the time period is from about 5 minutes to about 3 hours or a time period of 5 minutes to about 24 hours and the polyethylene is

UHMWPE. The processes set forth in the dependent claims also overlap with respect to temperature, radiation dose and intended properties. Thus the limitations of the process set forth in the instant claims are obvious variants of the limitations set forth in the claims of A.N. 10/197209.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 124-127 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 124-125, 130 and 143-146 of copending parent Application No. 09/764,445. Although the conflicting claims are not identical, they are not patentably distinct from each other because the processes set forth in the corresponding claims overlap wherein the

heating is at a temperature above the melting point and below the decomposition temperature for a time period from about 5 minutes to about 3 hours. The processes set forth in the dependent claims also overlap with respect to temperature, radiation dose and intended properties. The polyethylene recited in the claims of A.N '445 encompasses the UHMWPE recited in the instant claims. Claims 124, 125 and 130 suggest instant claim 127. Claim 143 suggests instant claim 124. Thus species within the instant claims are obvious from the limitations set forth in the claims of A.N. 09/764,445.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan W Berman whose telephone number is 571 272 1067. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571 272 1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Susan W Berman Primary Examiner

Susan Berman

Art Unit 1711

SB

3/24/05